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SHERI BYRD/NEWSLINE

Among the studies of the Climate and Carbon Cycle Modeling Group members — from left, Philip Duffy, Ken Caldeira, Starley Thompson and Jose Milovich — are ways to store excess carbon, such as sequestration, or sending it into the deep oceans (below).

Model research for climate change

By Sheri Byrd

NEWSLINE STAFF WRITER

What will the results of the “greenhouse effect” be in five, 10 or 50 years? On the world? On the United States? On the Tri-Valley specifically?

What would happen if one or more of the suggested steps to stem this effect were taken by

SCIENCE DAY

California, the entire United States or by the world?

These questions, and more, are the focus of the Lab’s Climate and Carbon Cycle Modeling



Group. Thanks to the unique supercomputing capabilities here, scientists Philip Duffy (group

See **CLIMATE**, page 8

Steering group appointed to oversee development of upcoming employee survey

By Lynda Seaver

NEWSLINE STAFF WRITER

Development of a comprehensive survey of employee views of the work environment is intensifying following the conclusion of the recent senior management off-site and discussions with several focus groups to identify important workforce issues.

A steering group has been named to develop the survey as well as a path forward following the survey.

“We’ll be prioritizing the survey’s objectives and sub-objectives over the next week or two,” said Bob Kuckuck, chair of the Survey Steering Group. Once that is completed, the group will hone those objectives and help formulate the questions for the survey.

The survey will be given to employees during the spring, most likely in the late April to late May time frame, said Kuckuck.

The survey is being developed by International Survey Research (ISR), which conducted the Laboratory’s 1995 diversity survey. The present plan is to offer the survey both on line and in paper form, and for it to require less than 30 minutes to complete. The survey will collect data that will permit trend analyses, benchmark comparisons with other laboratories and companies, and clarification and prioritization of Lab-specific issues.

“We received a 68 percent return on the diversity survey,” explained Kuckuck. “ISR told us that was extraordinarily high, but for this survey we would like 68 percent to be extraordinarily low. We would like all employees to give us their opinions by responding to this survey.”

To attract those higher numbers, Kuckuck said the steering group is spending additional time to design the survey to address as many issues as practicable. The Lab is also looking into developing supplemental question sets that will be tailored to specific groups of respondents.

“It’s an intense task to integrate all of the varying objectives and issues people would like to address with this survey, but we really want to get it right,” said Kuckuck. “This is a prime opportunity to understand

See **SURVEY**, page 8

Lab physicist writes the book on how to put your science to work

NEWSLINE STAFF REPORT

Graduate students and recent Ph.D.s in a wide range of sciences recently crowded into a large lecture room at the American Geophysical Union’s meeting in San Francisco to get some advice on a topic of increasing concern: What are my career options? The person they had come to hear was Peter Fiske, author of the just-published “Put Your Science to Work: The Take-Charge Career Guide for Scientists” (2001 AGU).

“Career development remains a

primary issue for young scientists,” said Fiske. “In one survey we conducted of young AGU members, we found that concern about the job market was the number one most cited reason why some students had considered leaving graduate school. It’s an important issue not only for young scientists, but for the health of the discipline as a whole.”

Fiske, a physicist working in the Physics and Advanced Technologies Directorate, is something of a guru for young science graduates seeking interesting careers, thanks to a previous career guide, “To Boldly Go” (1996

AGU).

“This book is unusual in that it’s written by a scientist, for scientists. I’ve revised just about the whole thing,” he commented.

“The situation is vastly better than it was just five years ago. The economic boom has been largely technology driven,” he continued. “This technology-based economy has opened doors

See **BOOK**, page 8

Peter Fiske’s book advises on how young scientists can take charge of their careers.



Digging deep for safer groundwater
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Core mysteries, cosmic questions solved by IGPP
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Grass-roots safety teams springing up across Lab
— Insert



LAB COMMUNITY NEWS

Weekly Calendar

Technical Meeting Calendar, page 4

Friday
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The **Benefits Office** will kick off a brown-bag series on how to enhance your financial security by participating in the Tax-Deferred

403(b). The first session will be held at 12:15 p.m. in Bldg. 571, room 2301; additional sessions will be held on the last Friday of each month throughout 2001. Attendance is open and no pre-registration is required. Bring your lunch and your questions. For additional information about benefit services or events, please see the Website at www.llnl.gov/jobs/benefits.

Saturday
24

There will be a scheduled **power outage** from 7 a.m. to 3:30 p.m. on Saturday and Sunday in Bldg. 391.

The building will have partial power during this outage. Contact: Mark Cardoza, 3-0490.



Should the United States engage in nation building? Karen Guttieri, postdoctoral fellow of Stanford University's Center for International Security and

Cooperation, will discuss the issue in depth during a special seminar sponsored by the Center for Global Security Research. The talk, titled **"Should the U.S. Engage in Nation-Building? The Effectiveness of Civil-Military Operations,"** takes place at 10 a.m. Tuesday, March 6, in Bldg. 132S, room 1784. Contact: Tami Alberto, 2-5969.

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The **Tri-Valley Expanding Your Horizons** Conference is looking for help with packet stuffing on Wednesday, March 7. The group will meet from 11 a.m. to 2 p.m. in the mezzanine of Bldg. 905 at Sandia. Pizza and soda will be provided. Contact: Kim Budil, ksbudil@llnl.gov or 3-8098.

...

The Lab is hosting a **free tax workshop for foreign nationals** whose tax filing status is non-resident, on March 9 from 1:30-3:30 p.m. in the Bldg. 123 auditorium. UC Berkeley will offer this workshop for both international employees and visiting international scholars (participating guests, student guests). State and federal non-resident tax forms will be provided, along with information on who needs to complete which tax forms, where to send the forms, the basics of how to fill out the forms and the deadlines. For more information, see the Foreign National Office Website at http://www-r.llnl.gov/human_resources/RED/fornat/fncover1.html

...

B Division's **spring book sale** returns March 12-16, 11:30 a.m. to 1:30 p.m., in Bldg. 132, room 1200 (Q- or L-cleared access only). Used books, videos, CDs and books-on-tape are needed; all proceeds are used to buy Christmas gifts for needy children. Each year the sales help agencies in various places, including Livermore, Fremont, Concord and San Joaquin County. A collection box is available in the lobby of Bldg. 132, or call Lynn Groves, 2-1684.

Safe drinking water on tap for Saturday talk

The Lab's Science on Saturday feature a talk tomorrow on "How Do We Know if Our Drinking Water is Safe to Drink?" from 9:30 to 11:15 a.m. in Bldg. 123 auditorium.

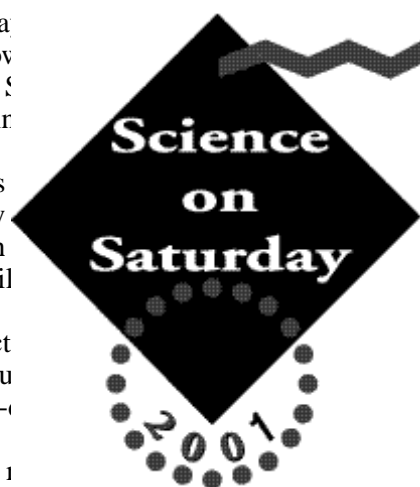
Bryant Hudson of the Lab's Analytical and Nuclear Chemistry Division and Livermore High School teacher Sarah Palmer will give the talk.

The talk will be an introductory overview of groundwater and one of the tools used by the Lab to characterize it — age-dating using tritium and helium-3.

"Groundwater is an important resource and needs to be protected from contamination. Using age dating, we can determine how connected groundwater is with the surface (or near surface) of the earth, and accordingly how vulnerable it is to contamination," Hudson says.

Science on Saturday is a six-week series of free 90-minute talks geared toward middle and senior high school students.

The lectures, which cover subjects ranging from whether our drinking water is safe, to what makes the wind blow, to what do genes really do, will be offered every Saturday through March 24, from 9:30 to 11:15 a.m. All of the talks will be in the Bldg. 123 auditorium, and are open to students, their parents or guardians and teachers. Registration is at the door and seating is available on a first-come, first-served basis, with priority



given to students and teachers.

The series is co-sponsored by the Laboratory's Science and Technology Education Program and the Livermore chapter of Sigma Xi, the Scientific Research Society.

Here's the schedule for the remaining talks in the series:

March 3 — "What Makes the Wind Blow?" by Jim Ellis, Mike Miller and Ron Baskett of LLNL's Atmospheric Release Advisory Center and Canada High science teacher Susan L.

March 10 — "What Do Your Genes Really Do?" by Joanna Albala of LLNL's Biology and Biotechnology Research Program and Tracy High School teacher Kirk Brown.

March 17 — "Can We Predict if Our Climate Is Changing?" by Gerald Potter of LLNL's program for Climate Model Diagnosis and Intercomparison, Ron Rusay of Diablo Valley Community College and Amador Valley High School teacher Eric Thiel.

March 24 — "How Light Is Changing Your Future" by Chris Ebberts and Joel Speth of LLNL's Laser Science and Technology Program and West High School teacher Randy Mohenke.

For more information on Science on Saturday, check the Web at <http://education.llnl.gov/sos> or call the STEP information line at 2-6818.

Tri-Valley science fair appeals for volunteers, judges

Organizers of the Tri-Valley Science & Engineering Fair could use a hand with this year's event. More than 100 volunteers are needed to help with everything from judging and project safety inspections to general assistance.

The fair, which is affiliated with the Intel International Science and Engineering Fair, will be held March 28 to April 1 at the Blackhawk Museum in Danville. The greatest need is for judges on March 29 from approximately 7:30 a.m. to 2 p.m.

The Lab is one of the organizing sponsors of the fair, along with the Tri-Valley Business Council, Blackhawk Museum, the Contra Costa Newspaper Group, Chevron Corp. and the Tri-Valley Community Fund.

"Last year, we had more than 100 judges participate — and this year we need more. The 250 students always say that talking with the judges about their project is a top highlight of their fair participation," said Karen Kiernan, fair director. "Judging is done in teams, so even if you have yet to have participated as a science fair judge, please do not hesi-

tate to come and join the fun. Our past judges find the experience each year just as rewarding as the students."

If you would like to be a judge or volunteer, or if you know of someone who would like to volunteer, contact Dee Johnson at johnson109@llnl.gov

For more information about the fair, contact Karen Kiernan at 3-9051 or kiernan2@llnl.gov, or visit the Website at: <http://lasers.llnl.gov/lasers/tvsef>

In addition, the Intel International Science and Engineering Fair will be held in San Jose this May and is also looking for judges.

"This is a marvelous opportunity to volunteer at this prestigious international science fair event," Kiernan noted.

The IISEF will be held at San Jose Convention Center and judges must be available May 8 and 9. For more information about becoming an IISEF judge, visit <http://www.intelisef2001.org/>



IN MEMORIAM

Ray Aley Jr.

Services have been held for Ray Emerson Aley Jr., a 31-year resident of Livermore, who died Jan. 30. He was 67.

Born in Montique, Mich., he served in the Navy and earned a master's degree in mathematics before working at the Laboratory for 10 years. Aley worked as a group leader and assistant division leader in the Scientific Software Department of Computations.

He was a pilot and a member of the Flying Particle Club. He enjoyed traveling to foreign countries and spending time with his grandchildren.

Survivors include wife Lou Ann; daughter Diane; son Ray III; stepdaughter Vickie; stepsons Steve and Michael; and 12 grandchildren.

Memorial gifts may be sent to Hope Hospice of Dublin, 6500 Dublin Blvd., Suite 100, Dublin 94568.

Newsline

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AROUND THE LAB



Institute seeks answers to cosmic questions

Editor's note: This is the third article in an ongoing series on the Lab's research institutes. Today's article looks at the Institute of Geophysics and Planetary Physics.

By Elizabeth Campos Rajs

NEWSLINE STAFF WRITER

At first glance, research projects at the Institute of Geophysics and Planetary Physics (IGPP) seem worlds apart. One side of the house studies the Earth's core, while the other is focused on the outer solar system and beyond.

But the pairing of geosciences and astrophysics is long established and well thought out. The fundamental mission of the IGPP is "to promote and coordinate basic research on the understanding of the origin, structure and evolution of the Earth, the solar system and the universe, and on the prediction of future changes as they affect human life."

Kem Cook, acting director of the Lab's IGPP branch, said that astrophysics and geophysics share some basic research thrusts. "They both are trying to understand origins: the origin of the solar system, the origin of structure on Earth and how these evolve," he said.

The IGPP, which was started at the Lab in 1982, is the oldest and most established of the University Relations Program's five institutes, which together form a centerpiece of the Lab's research collaborations with universities. The other institutes are the Institute for Laser Science and Applications, the Institute for Scientific Computing Research, the Center for Accelerator Mass Spectrometry and the Materials Research Institute.

"IGPP has achieved an international reputation as one of the leading research centers in the areas of astrophysics and geophysics, which allows them to play a strong role in recruiting top research talent to the Laboratory," said Harry Radousky, acting director of the University Relations Program.

IGPP also stands apart from the other institutes because of its unique link to the University of California. It is one of six Multi-Campus IGPP Research Units in the UC system.

The first IGPP was established in 1946 at UCLA. Since then, it has been expanded to UC San Diego, UC Riverside, UC Santa Cruz, Los Alamos National Laboratory and the Lab. Within the next decade, there will most likely be IGPP branches at all UC campuses, Cook said.

"The concept is to have sites at different institutions, which enhance and foster collaborations among the UC campuses and the UC-managed laboratories," Cook said.

"At Livermore, the main purpose of the institute is to foster interactions between the UC campuses and the Lab. It is a window into the Lab, a way to establish collaborations between the campuses and Lab researchers," Cook said. "It has served its purpose quite well."

IGPP researchers have published more than 100 peer-reviewed papers in the last fiscal year. In addition, the IGPP sponsors postdocs at the Lab and currently has about one dozen working on various research projects as well as four graduate students. A number of grad students and college students also work at the institute during the summer.

To stimulate Lab-campus interactions, IGPP awards small grants for research collaborations between principal investigators at the Lab and the campuses, he said. The institute is currently funding about 21 such collaborations with UC campuses.

In total, the IGPP has approximately 40 collaborative ventures with institutions from around the world.

The Lab's institute is divided into two centers: the



JOSEPH MARTINEZ/TID

From the left : Kem Cook along with postdoctoral fellow Rodin Porrata and IGPP physicist Stuart Marshall, LLNL members of the Taiwanese American Occultation Survey (TAOS), with one of the 0.5-m TAOS telescopes in Cook's lab in Bldg. 341. Each telescope's performance is optimized at LLNL before being sent to the TAOS observing site in Taiwan where it will search for comets in the outer solar system.

Astrophysics Research Center, headed by Cook, and the Geosciences Center, led by Rick Ryerson.

The Astrophysics Center serves as the focus of astrophysics activities at the Laboratory, organizing a weekly seminar series on Friday afternoons, hosting visitors and collaborators, and by editing an annual *Observatory Report* that covers all astrophysics activities at LLNL.

There are a few major research thrusts of the Astrophysics Research Center. One high-profile activity is using adaptive optics systems, which were developed at the Lab to better understand problems ranging from planetary weather and the structure and evolution of satellites around Jupiter, to how black holes in the cores of galaxies interact with the rest of the galaxy. The far reaches of the universe are also being studied.

"The focus here is on the formation of massive galaxies and large-scale structure in the early universe," Cook said.

Current studies use custom-made, narrow-band filters, which are centered on redshifted hydrogen emission-lines. "In the future we hope to use tunable filter instruments such as the Imaging Fourier Transform Spectrometer, which is currently under development at the Lab," Cook says.

There is also a project under way to build a set of four half-meter telescopes for a collaborative project called the Taiwanese American Occultation Survey (TAOS). The four telescopes, which will be located in Taiwan, will all stare at the same portion of the sky, waiting to detect the momentary blinking out of a star due to a comet in the outer solar system passing by — basically waiting for the shadow of a comet, Cook said.

In addition, the Astrophysics center is home of the MACHO (Massive Compact Halo Objects) Project, an international experimental search for the dark matter that makes up at least 90 percent of the mass of our galaxy.

This project has finished collecting data, 7.3 terabytes in 7.5 years, and final analysis is under way. The project brings together researchers from a dozen institutions and has published about 50 papers on the galactic dark matter search, the structure of the galaxy and time variable astrophysical phenomena.

"We are now using the MACHO camera system (an R&D 100 Award winner) to look at the outer solar system — past Neptune — for giant comets or planetisms, objects very similar to Pluto," said Cook, who was one of the founding members of the MACHO collaboration.

The Geosciences Center also serves as the focus for interactions with visitors and academia and industrial and government geoscience research institutions. Its research emphasis has been on the physics and chemistry of the solid Earth, including seismology, geochemistry, experimental petrology, mineral physics and hydrology.

The Geosciences Center is currently sponsoring collaborative research to understand such things as what is happening as the Indian subcontinent collides with Asia, understanding the interaction of the plates and how this interaction is lifting up the Himalayas and the Tibetan plateau, Cook said.

There is also a Geosciences Center project studying meteorite compositions to better understand the formation history of the solar system, which connects topical areas in both centers.

The IGPP has a small core staff located in Bldg. 319. They are primarily dedicated to the Astrophysics Center. The researchers who participate in the Geosciences Center are primarily located in the Energy and Environment Directorate, Cook explained.

"We will continue to act as the main connection point between academia and the Lab for astrophysics and geosciences," Cook said of IGPP's future. "As we move forward and NIF comes on line, both the Institute for Laser Science and Applications and the IGPP will be a significant point of contact for people outside the Laboratory to come do laboratory astrophysics using NIF."

For more information on the IGPP's current research, check the Web at www.llnl.gov/urp/IGPP



The Laboratory concludes its celebration of the 50th annual National Engineering Week today.



NEWS YOU CAN USE

American Cancer Society’s fund-raiser back in bloom with return of Daffodil Days

Daffodils are in bloom once again, and with them comes the return of the annual American Cancer Society fund-raiser, Daffodil Days.

Each year the American Cancer Society sells daffodils, the symbol of hope, to raise money for the fight against cancer. Cost of the flowers is \$10 per bunch of 10 daffodils, and \$5 for a vase.

Once again, the American Cancer Society has decided not to sell merchandise, such as T-shirts and coffee mugs, which were available in previous years. Instead, the society this year has added a new item, the Vision Bouquet. This bouquet arrives with two bouquets and an artistic glass vase to arrange as you wish. A poster display of these items is in each of the Lab’s cafeterias.

Employees may also choose the “gift of hope,” a \$15 donation that enables flowers and a vase to be delivered to a Tri-Valley cancer patient. However, participants cannot designate to whom or where these gifts are distributed.

Over the years the Lab has become one of the largest corporate contributors to the American Cancer Society fund-raiser. In the last eight years the Lab has been the largest corporate contributor in the Bay Area, and the last five years LLNL was the second largest corporate contributor in California.

Money raised from Daffodil Days goes primarily into research, prevention, patient services and detection and treatment.

The last day to place orders is Friday, March 9. Daffodils will be delivered on Monday, March 26, as unopened buds to assure maximum bloom life.

For more information on ordering and prices, contact your nearest Daffodil Days representative from the list below.

Join your co-workers in fighting cancer

Purchase a bunch of freshly cut daffodils (10 stems) for \$10. A vase is available for an additional \$5.

Money from this American Cancer Society-sponsored event will go to research, education and patient services.

The deadline for an LLNL order is Friday, March 9. Delivery will be on Monday, March 26.



Check the list below for the LLNL Daffodil Days volunteer nearest you who is accepting orders.

Name	Bldg.	Rm.	Phone	Name	Bldg.	Rm.	Phone
Bell, Christine	381	1356A	3-9447	Mahler, Florann	551E	2101C	2-9173
Berkich, Tracy	071	1020	2-8246	Miller, Margie	315	285	3-0269
Bertram, Sharon	261	1408	2-5853	Pereira, Kris	871	124	3-5245
Bishop, Sue	321A	1020C	2-9593	Pierce, Sue	2679	1269	3-1094
Breznik, Joanne	616	100	4-4101	Purpura, Gloria	1878	104	2-7281
Carter, Karen	234	1020	3-5934	Quick, Bonnie	451	2005	2-6510
Carter, Marilyn J.	1877/1879	126	2-7715	Riendeau, Misty	5979	100	2-9521
Cochran, Loretta	253	1524	2-0964	Rodrigues, Lei Loni	131	2088	2-0654
Conrad, Janet	218	119	2-7561	Rutan, Dena	482	2234A	3-1813
Continente, Jenifer	113	5024	2-6644	Schleich, Dabbie	132N/151	2841	2-1241
Copp, Kathy	235	2070	4-2597	Schmidt, Sharon	663	1000	2-7459
Crippen, Terri	5477	1042	3-9878	Sefcik, Cookie	3226	104	3-2242
Curtis, Leslie	132N	1489	2-0217	Serrato, Martha	3725	437	2-5116
DaRonco, Dawn	331/335	1029	2-6649	Shuler, Jean	113	1030	3-1909
Dewolf, Chris	543	1281	3-8348	Simmons, Mag	191	2123B	2-3364
Fread, Lanette	411	1422	2-9288	Springer, Frankie	111	332	3-6192
Gagetta, Rita	111	501	3-1161	Sorensen, Nanette	2925	101	2-9670
Garrett, Liz	1406	1117	3-2482	Taberna, Sharon	361	1741	4-2263
Gonsalves, Sandi	170/1739	2112	3-8821	Twiss, Carol	571/671	1138	2-9395
Grandfield, Charlene	5475	1359	3-1779	Watt, Maggie	332	1138	3-6003
Gros-Baumgartner, Bertie	121	1103	3-7751	Weyburn, Sandy	511	203D	2-0840
Jessup, Mary	231	1236	3-1760	Williams, Anita	132N	2254	2-4550
Jimenez, Irene	511	213	3-1273	Ybarra, Corinne	481	2075A	3-9501
Lindsay, Karen	432	2003	4-4371	Yazzie, Darlene	132S	2121	3-7846

Technical Meeting Calendar

Friday
23

H DIVISION

“Molecular Electronics: What Is It?” by Massimiliano Di Ventra, Virginia Polytechnic Institute and State University. 10 a.m., Bldg. 319, room 205 (open area). Contacts: Andrew Williamson, 2-8285, or Darlene Klein, 4-4844.

Monday
26

CMS/MATERIALS SCIENCE & TECHNOLOGY

“Recent Developments in Density Functional Approaches to Nanoscale Materials Structures and Properties,” by Thomas Frauenheim, Universitaet Paderborn, Germany. 11 a.m., Bldg. 235, room 1090 (uncleared area). Contacts: Andrew Quong, 2-5641, or Linda Jones, 3-8839.

UC DAVIS, DEPARTMENT OF APPLIED SCIENCE

“Deformation in the Final Shocked State: Getting There By Limo (NEMD) or By Unicycle (the Uniaxial Hugoniotat),” by Brad Lee Holian, LANL. 4 p.m., Bldg. 661 (Hertz Hall), room 7 (open area). Refreshments served at 3:30 p.m. for a “meet the speaker” session before seminar

and at 5 p.m. after the seminar. Contact: Estelle Miller, 2-9787.

Wednesday
28

INSTITUTE FOR SCIENTIFIC COMPUTING RESEARCH

“Optimal Preconditioned Eigensolvers for Very Large Symmetric Eigenproblems,” by Andrew Knyazev, University of Colorado. 10 a.m. Bldg. 451, room 1025 (uncleared area). Contacts: Panayot Vassilevski , 3-5685, or Leslie Bills, 3-8927.

MATERIALS RESEARCH INSTITUTE

“Developments in Biological Analyses with the LLNL Nuclear Microprobe,” by Patrick G. Grant, LLNL. 3:30 p.m., Bldg. 219, room 163 (open area). Contacts: John Molitoris, molitoris1@llnl.gov, or Miriam Rinnert, rinnert1@llnl.gov.

Thursday
1

PHYSICS & ADVANCED TECHNOLOGIES

“B(M1)-Values in the Band Crossing Region of the Strongest Shears Band in 197Pb,” by Jeffrey Cooper, Yale University. 10:30 a.m., Bldg. 211, room 227 (uncleared area). Contacts: Lee Bernstein, 2-0377, or Pat Smith, 2-0920.

Friday
2

CHEMISTRY & MATERIALS SCIENCE

“Synthesis and Characterization of Quaternary Actinide Chalcophosphate Compounds,” by Ryan Hess, LANL. 10 a.m., Bldg. 151, room 1209 (uncleared area). Contacts: Patrick Allen, 3-8955, Joanne Maxwell, 4-4344.

Tuesday
6

CENTER FOR GLOBAL SECURITY RESEARCH

“Should the US Engage in Nation-Building? The Effectiveness of Civil-Military Operations,” by Karen Guttieri, Stanford University. 10 a.m., Bldg. 132s, room 1784. Contact: Tami Alberto, 2-5969.

Thursday
8

PHYSICS & ADVANCED TECHNOLOGIES

“Leptoquarks and Technicolor: Results from CDF,” by Richard Haas, University of Florida. 1:30 p.m., Bldg. 211, room 227 (uncleared area). Contacts: Doug Wright, 3-2347, or Pat Smith, 2-0920.

Deadline for the next calendar is noon, Wednesday, Feb. 28.

NEWS OF NOTE



Health Services seeks accreditation

The Health Services Department will be the subject of an accreditation survey by the Accreditation Association for Ambulatory Health Care Inc. (AAAHC). The survey will take place March 19-20.

The survey will be used to evaluate Health Service’s compliance with AAAHC standards for ambulatory health care and to determine if accreditation should be awarded to the department.

The ultimate purpose of the accreditation process is to improve the quality of care delivered by Health Services. Health Services has voluntarily requested the survey as a means of assisting the department’s own efforts to improve the delivery of quality health care.

For almost four decades, accreditation has been the highest form of public recognition a health care organization could receive for the quality of care it provides. The AAAHC is a non-profit accrediting body for ambulatory health care facilities. As of January 2000, there were 1,100 accredited organizations. Accreditation may be awarded for either six months, one year or three years. The accreditation decision could be deferred or denied as well.

The certificate of accreditation is the most visi-

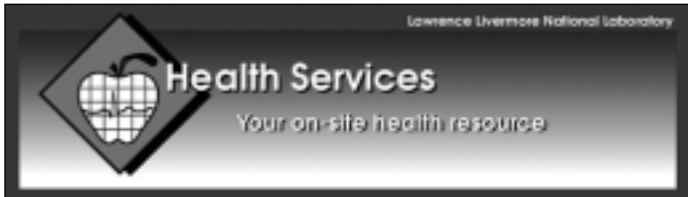
ble result of the process. The ultimate value of accreditation, however, lies in the ongoing self-analysis, peer review and consultation the center gains as it continues its participation in the program.

In the past, DOE Contractor Occupational Medicine programs had previously been reviewed by DOE Headquarters staff. DOE has chosen

AAAHC accreditation as a way to assure consistent high quality standards of health-care consistent with national standards.

AAAHC has reviewed a number of DOE contractor occupational medicine programs. Sandia Albuquerque and LANL have received three-year accreditations.

Laboratory employees and Health Services staff members who wish to share pertinent information may request a presentation with AAAHC surveyors, or may communicate in writing or by telephone to AAAHC. Requests for presentations must be made two weeks in advance to allow time for scheduling. Information may be submitted to the Accreditation Association for Ambulatory Health Care Inc., 3201 Old Glenview Road, Suite 300, Wilmette, IL 60091, or call 847-853-6060, or fax 847-853-9028.



Eagle-eyed view on Lab



JACQUELINE MCBRIDE/PUBLIC AFFAIRS

A Golden Eagle found the top of the NIF crane a convenient perch during a rare visit recently. Apparently enamored of the view, the eagle spent most an afternoon surveying the Lab.

Haven offers tips to detect warning signs of domestic violence

Editor’s note: The Employee Assistance Program recently received inquiries about appropriate responses to domestic violence issues. The following article, written by the community liaison of the Tri-Valley Haven for women, provides awareness and sensitivity regarding this very difficult issue. Information on Lab resources is at the conclusion of the article. The article is reprinted with permission of the author.

By Vicki Thompson
TRI-VALLEY HAVEN LIVERMORE

As many as one-third of marriages, living-together relationships, gay and lesbian relationships and teen dating relationships involve some degree of physical abuse, according to studies by the Department of Justice, the FBI and others. Here in the Tri-Valley, police departments respond to approximately 500 domestic violence reports and countless “dispute” calls each year.

Abuse does not stop when the battered partner goes to work. Indeed, abusive partners frequently feel threatened by their mate’s financial self-sufficiency and the support system that they may have at work, and the batterer will attempt to sabotage the partner’s job. Seventy-five percent of battered women report that they are regularly harassed at work by their abusers, either in person or via the telephone and other electronic means of communication such as e-mail, pagers and fax. Ninety-six percent of battered women experience negative consequences at work because of domestic violence, ranging from being late, missing work, being unable to concentrate, being reprimanded for problems associated with the abuse and losing their jobs.

In January of 2000 a law took effect extending unemployment benefits to workers who had to quit their jobs because of domestic violence.

Many people trapped in abusive relationships do not tell others. They feel embarrassed or ashamed. Their batterers tell them that they provoke and deserve the abuse, and that they are stupid and worthless and no one else would ever want

them. Batterers may threaten to kill their partners or themselves, or to take the children away if the partner leaves. The most dangerous time for a battered woman is when she leaves her relationship for good. Forty percent of female homicide victims in California are killed by current or former husbands or boyfriends.

How can you tell if a co-worker is being abused? The most common warning signs include: coming to work repeatedly with injuries, and offering vague explanations like, “I’m just clumsy;” receiving an unusual number of calls from their partner throughout the day, and reacting emotionally to those calls; frequent absences; partner may try to make demands about the employee’s work schedule or forbid partner to work overtime or attend company functions; employee may be easily upset or distracted, or seem depressed.

How can you help someone whom you suspect is being abused? Let the person know that you are concerned — ask if that person is hurt at home. Let them know that the abuse is not their

fault. Even if they say that they “started it” by arguing or nagging, let them know that the decision to respond with violence is the batterer’s responsibility, and that they do not deserve to be hurt no matter what they said or did. Don’t ask, “Why don’t you just leave?”

Leaving an abusive relationship is a process, and most battered women leave at least six times for short periods of time before they leave for good. If she’s not ready to leave now, or leaves for a few days and goes back, that doesn’t mean that she has failed or that your efforts to help her have failed (we refer to women here because most victims of domestic violence are women). Each time she leaves, she will gain more confidence and discover more resources to eventually stay away. Don’t tell her that her partner is crazy or evil, because there is a positive side to this person that she fell in love with. Focus instead on your concern for her safety, and help her find resources to assist her. A crisis line offers a confidential way to discuss her situation and gain information about her options.

Abuse assistance available onsite and in town

Resources for domestic violence are available both at the Laboratory and off-site. The Lab’s Employee Assistance Program is here to answer your questions and address your concerns about domestic violence issues. Appointments can be made by calling 3-6609 between the hours of 8 a.m. and 4:45 p.m., Monday through Friday.

The Lab’s off-site Employee Assistance Program, CONCERN, offers a toll-free number, which is answered by a trained staff member, 24 hours a day, seven days a week. The number is 1-800-344-4222. Both the internal and external EAPs offer a confidential way to discuss sensitive situations and information about options. Five free counseling visits are also offered through CONCERN.

Community domestic violence resources

Tri-Valley Haven in Livermore has been helping survivors of domestic violence and sexual assault and abuse since 1977.

The Haven offers a 24-hour crisis line that is always answered by a trained staff person or volunteer, a 30-bed shelter for battered women and their children, two weekly restraining order clinics, low-cost group and individual counseling, rape crisis advocacy and community education about domestic violence and sexual assault. For more information, call the Haven’s crisis line: 925-449-5845 or 800-884-8119.

For information about domestic violence, women’s rights and resources, see the Website at <http://caag.state.ca.us/piu/womansrights/ch7.htm>.



CLASSIFIED ADS

See complete classified ad listings at
<https://www.ais.llnl.gov/newsline/ads/>

AUTO MO BILES

1986 - red Pontiac Fiero, great for high school student. \$900 or BO. 925-606-1451

1992 - Buick LeSabre, great car, good mileage. \$4,800. 925-447-7588

1992 - Plymouth Voyager; 7 passenger; air; am/fm cassette; airbag; Teal; Great condition 124,000 mls. (Blue Book \$4000+) \$3500 obo 925-413-3274

1965 - Fury III 2 door hard top. 74-440 w/ 1000miles, edel-brock performer/ holly 3310, dual exhaust. Tilt, pw,ps, auto. Needs paint/ minor bodywork. \$2000 209-368-4286

1988 - Camaro V8/305 AT, AC, cruise, original owner, 60K on engine \$3500 925-447-8613

1990 - NISSAN Pathfinder, 4X4, Auto trans, P/W, P/L, Air cond., Tow hitch, Roof rack, 68K miles, \$7500 925-443-1533

1994 - Plymouth Voyager SE V6, 92K miles, air, auto, tilt, cruise, pwr windows/doors, Sony stereo. \$5K BO 925-455-4484

1991 - Ford Grand Marquis, white, very good condition, well maintained, 87K miles, \$4,000 obo. 925-447-8607

1993 - Mercedes 300E, white, tan interior, 81,000 miles, excellent condition, gasoline (not diesel) \$19,500 209-599-3130

1993 - Pontiac Grand Prix. A/C, C/C, AM/FM/Cassette. 78K mi on engine, 134K mi on car. Excellent condition. \$3500. 925-485-1988

1991 - Mazda Miata, Red w/black top & int. Alloy wheels, AC, AM/FM/Cassette, 2 covers, bra, luggage rack, etc. 69K miles! Exc. cond. Fun to drive! \$8550. 925-449-5667

1966 - Red Mustang, Straight 6, restored, except for carburetor & speedometer cable! \$7,500, 209-858-1083

1981 - Ford Bronco. Ranger XLT, 4WD, Automatic. Purchased in 1989 with unknown mileage. 41,000 miles since 1989. Runs well. \$2,500 OBO. 925-556-9819

1989 - Chevy Celebrity Eurosport Station Wagon, 4 dr, A/T, A/C all power accessories.143,000 miles. Excellent condition, runs great \$2850 OBO. 925-833-0186

2000 - FOR SALE-Next to new F150 Supercab XL. Great sound system and low mileage with warranty. Asking \$16,500. 209-599-7914

1995 - Ford Windstar GL minivan, 61000 mi., excellent condition inside and out, champagne color, seller motivated to sell: \$9,900 OBO. 925-830-0637

1994 - Ford Explorer Dark Blue Eddie Bauer model, 4WD, newer tires, brakes, shocks, brush guard set etc. Below Book at \$9900. 925-443-0901

1997 - Honda civic, excellent condition; power steering/windows; air, CC, Tilt Wheel; compact disc, moon-roof. Low mileage 41K asking \$13,500. 925-447-9344

1990 - Honda Accord LX Sedan 4D, air, power: steering, windows, locks. AM/FM, cassette. One owner, 157K miles. \$4,900 OBO. 925-846-5499

1985 - Jeep Wagoneer - \$800.00 209-835-7960

1992 - Acura Integra GS, pw, ps, pl, a/c, am/fm cass, tintd wndws, sunroof, new tires, 4 cyl, 5 spd man. trans. 87K mls, orig ownr, clean. \$7,900.00 925-833-8434

92 - Chevy Lumina Eurosport Coupe Exc. cond. Exc gas mileage, V6, LOADED. See on-site. \$3,450/OBO 925-846-1389

1999 - GMC Savana Cargo Van. V6 engine. Like new with only 25k miles. Alarm, PS, PB, AC. \$16500. 510-524-8332

1995 - Mazda Mx-6 58,000 mi, 5 speed (approx. 35mpg) all power, ac,cc,am/fm cass. new front tires and brakes, clean, must sell. \$8,000.00 obo. 925-447-3133

1996 - SATURN, SL2, clean, very good condition, alloy wheels, new tires, brakes. White, spoiler, \$5200 OBO 209-545-2216

1994 - Jeep Grand Cherokee, V8, 4 wheel drive, Infinity stereo, 108K miles \$10,500 obo 925-846-3970

AUTO MOBILE ACCESSORIES

Two MTX 8 inch subwoofers, with boxes and two Amps. \$600 OBO. 925-828-4937

Aluminum modular truck rack from 86 toyota pickup. Hauler racks mfg, fits short bed. Should fit Datsun also. \$350 209-368-4286

Tires, Brand new off 2001 silverado H/D 4x4 LT245/75 16 inch 10 ply all terrain radials \$350 obo 925-447-4611

Tires and Rims, 4 aluminum, 1 steel, P22570R14, 5 lug, 4.5 inch bolt pattern, 1 new tire, \$125, 925-455-0836

BICYCLES

Girls 24in.Specialized MTN 18SP.\$50; Boys BMX Specialized FatBoy, Trick Setup, Chrome \$195/offer 925-837-8780

Trek 930 mountain bike, 1991 Black Mens 16in frame, 26in tires, plus set of wheels and street tires. Good condition, \$250 OBO 925-449-6911

BOATS

25ft Apollo Fishing/Cruiser. 79 hull/85 motor/outdrive just overhauled. Sleeps 4, galley & head. Galv Trlr. Good Cond. Fun Salmon/Striper Boat. \$15k 925-447-7455

ELECTRONIC EQUIPMENT

HiEnd home theater system \$400; N64 game system; BOSE 901 speakers with equalizer \$200; B&O linear tracking turntable \$75. Offers accepted 925-736-7799

Melodion (keyboard harmonica, not electric) two octaves, case, wt: few oz, blow and play any tune or chord. Never used. \$40. 925-455-0383

SEGA Genesis. Excellent condition with 2 controllers and 16 non-violent games. \$110 OBO. 925-455-8971

Two MTX 12in. subwoofers, with box and 600 Watt Kenwood Amp, with 3 yr warranty. \$700 OBO. 925-828-4937

Technics SL-1200MK2, Proff. DJ Turntable w/diamond tipped stylis, slip pad. Needs new on/off swith installed. \$750+ new, asking \$225/obo. 925-373-7434

MOVING SALE: electronics and test equipment, soldering irons, and much more. 925-449-2008

Old oscilloscopes. Tektronix, hp + others. Vacuum tube technology. Some work, some dont. \$10 to \$30. 925-417-7593

HP 380 All-in-One Color Printer, Scanner, Copier for PC. Like new condition with manual, software, and extra black print cartridge, \$60 OBO. 925-831-1288

Handspring Visor w/2 MB memory and USB cradle. Brand new in unopened box. Like Palm Pilot, but with expansion slot. \$160 (\$180 retail) 510-357-8642

GIVEAWAY

Mac 2si w/monitor, printer, cd, modem. Older OS and MS Office software included. Perfect for a student's first computer. Free to a good home. 925-443-0367

Vinyl rocker/recliner, some cracking. 925-443-2465

Free sofa & loveseat, fair condition, you transport. Leave message. 925-606-5577

Older large spa has all the parts. 925-447-6942

25 inch RCA mural color TV in a wooden console. Works but on/off switch could use repair. 925-455-4598

HOUSEHOLD

Recliner with vibration, (Bassett), blue corduroy, very comfy, \$65. Portable Singer Touch-N-Sew 640, foot control, 18 stitch disks, case, \$50. 925-455-0383

Beautiful antique furniture (variety of pieces)... must sell!!!! pictures available. for more information please call 925-245-9317

Wood Kitchen Table w/leaves and 4 chairs great condition \$50.00; Oak Dining w/leaf and 6 chairs exc.cond \$400.00 925-837-8780

Oak twin captains bed w/ 4 drawers plus storage, head-board w/ shelves orig. \$500 sell \$250. Oak 5 drawer dresser orig. \$469 sell \$200. 209-832-2862

Moving: 8pc Rattan lounge set, Glasstop oak dinning set, 6chairs, modern walnut desk, 17in SonyTV, best offer takes 925-736-7799

Framed Painting by local artist Norma Webb of valley scene 24x36 \$175, toaster oven \$20, Samsonite 24 inch suitcase \$35 925-447-8613

Refrigerator/freezer. Side-by-side. Ice maker. Off-white. Good condition. \$175. 925-443-5213

Mini blinds, hunter green, 71 inches wide. Complete with hardware. \$20/OBO. 925-443-2821

Sofa, dark blue-green solid color. Fair condition. Offer. 925-443-2465

Must sell: Wards freezer \$50 & sears refrigerator/freezer, \$50 both full size & works great; entertainment unit

(87hx17dx23.5w) \$100 or offer. 925-449-2008

roll top desk, all wood, honey maple finish, great condition. \$200.00 or best offer 925-443-1571

1999 Jenn-Air S-by-S Refrigerator 22 CU.FT, White, Energy Efficient JCD2289AE 35 3/4X69X29 \$1000 Excellant Shape. Paid \$2000. 925-443-4051

3 piece single bedroom set. Twin bed, mattress, nightstand, and chest of drawers. Ivory w/bronze trim. \$125.00 925-455-6261

Dryer - Kenmore electric, large capacity, near new, almond \$100 925-443-5565

Bassinet, Noahs ark Brand new never used paid \$85 sell for \$40 925-447-4611

Antique design oak highchair, Intricate woodwork, Decorative seat cushion, \$50. Snake skin boots, never worn, size 8-1/2, \$40 OBO. 925-449-6334

National Bread Machine, like new \$65; Oak end table \$15; Maple end table \$35; or best offer. 925-371-6113

MISCELLANEOUS

SouthWest Airline ticket,round trip, trip needs to be booked before 4/01/01 \$236.50 925-776-5612

Diamond engagement ring, 3 rows baguettes and brilliant cuts, center setting ready for 1/2 karat. \$1800 retail, asking \$800. After 5:30pm. 209-422-4939

Ladders 20ft/ext & \$45 8ft/step \$15,Heavyduty NEW Router+bits+table \$90; Room electrostatic airpurifier; \$110; Electric dehydrator \$40 925-736-7799

Boy/Girl 0-3 yrs. clothes, Old Navy/Gap/Gymboree brands. Exersaucers, car seats, oak changing table, toys, etc. Excellent condition and prices. 209-832-2862

Blood Pressure Monitor, one step auto inflation, like new \$50 925-447-8613

Mens' leather jacket, large, dark brown, removable insulated lining, like new, \$99. 925-454-9291

Custom mens sport bike, 23-in Reynolds 501 frame, 15-speed, Campi shifters, gold color, a steal at \$99. 925-455-0383

Bridal Gown/matching head-piece and veil/other accessories. Mon Cheri, Sz. 8, white. \$900 new, asking \$600. 209-836-2511

Ladies wedding set; engagement ring w/ diamond, and wedding band (no diamond) and 3 ladies rings. Call for details. 510-886-3252

Society Garlic and Golden Europ Daisy plants 1gal \$2 each, Agapanthus, Lily of the Nile \$2 each 925-447-6192

MOVING SALE: power and hand tools, microscope, metal & wood shelving, LUMBER, compressor, and much more. 925-449-2008

Computer Armiore, Light Pine, Whitewashed, Excellent condition \$400.00 or best offer 925-443-1571

Celestron 8 inch SCT telescope. with soft case, tripod, 9x50 finder. 800.00 925-449-1986

Metal storage shed (Arrow 10x14) never been assembled \$125.00 925-447-6942

BALSA WOOD for sale, pieces are 3 inches by 3 inches, 5 foot lengths. \$10 each, call for details. 925-634-8134

GM Service Manual for 1983 Light truck or van. \$10. 925-606-1216

Delta 10 inch Contractors Table Saw. Mobile base, dado set, extras. Excellent, has had light home use. \$625. 925-606-6515

MOTORCYCLES

1988 - BMW K100LT , tobacco bronze w/tan seat, like new, 11K original miles, garaged, new Metzler tires (<100 miles). \$6,500. 925-846-1459

MUSIC INSTRUMENTS

Lab Swing Band (Dance Band) needs musicians; trumpet, trombone, sax players. Wed. night rehearsals, South Cafeteria (Bldg 312). 925-443-2245

Hammond B-2 Organ with Trek II percussion; superb condition; call for more info; \$1200 925-443-8442

PETS & SUPPLIES

Fish tank and tank accessories, great for kids projects \$15 925-736-7799

Dog house for a med/lg size dog,has a pad and entrance weather flaps,like new. \$40.00 obo 925-447-6942

Keep your horse happy. Outdoor horse blanket/wind-breaker for sale, \$75. Very good price. Very good condition. Purchased brand new in November. 510-657-5876

Red Queensland puppy, male, 3 months old, has shots. Looking for a home. He is a cutie, and has a great nature. 209-847-7432

DALMATION. 6-yr-old AKC-reg.female, housebroken, spayed. Sweet, loving, healthy pet needs more space. Ideal for active family w/children. Free. 925-417-8813

RECREATION EQUIPMENT

Exercise equipment: Stepper + Multipurpose gym exerciser \$15, Karaoke tape player with speakers \$25, Kids Lego set \$45 925-736-7799

H0 model railroad - 2 boxes (circa early 70s) of misc. rolling stock, landscaping, building kits, etc. Make offer after you inspect contents. 209-835-6553

Honda EM 500 portable generator. 500 watt, small and quiet. Very good condition, low hours. \$300 209-368-4286

Cardio glide \$25, Ab roller \$10 excell cond. 925-447-4611

94 Weekender cab over camper model 1010 extended cab, queen bed, a/c, awning, stereo,great shape. \$8,750 OBO. 925-447-4797

HOME GYM - Prism 5600 by Formula, 13 workout activities, 3ft x 7ft x 7.5ft, in excellent condition. \$249 or best offer. 510-538-8732

Yakima ski rack, locking with adaptors for Explorer and similar roof racks, very good condition, \$40. 925-447-8313

See complete classified ad listings at
<https://www-ais.llnl.gov/newsline/ads/>



Older Nordic Track in good condition \$45; Stride Walker very good condition \$40; or best offer. 925-371-6113

AB-Roller (for situps) brand new. \$25.00. 925-443-7422

Skis, Dynamic VR27 (200cm) with Soloman 957 bindings, ski bag, \$150 925-447-6450

Ski clothing/equipment, youth/adult, many items, some barely used, priced to move; call to inquire. 925-443-3106

1985 Vacationeer Camper. 11 1/2 feet long, fully self-contained. A/C, loaded interior, excellent condition inside and out. Must see. \$5,000.00. 925-456-3010

Norditrack Ski Exercise Machine, Classic model, like-new condition, \$125.00 925-828-2609

Skiis, Boots, Poles. Downhill (Dynamic/Nordica), Cross-Country (Fisher/Salomon), & Back-Country (Karhu/Asolo). Boots sz 9. Please call for details. 925-455-4415

Motorhome, excellent condition, 1994 Damon Hornet, Class C, 21.5 ft, Ford 460, 40K miles, air cond., generator, inverter, micro \$21,500 958-373-1512

Full size camper: frig, stove, bed, table shower, toilet. moving need to sell \$500 209-832-1750

RIDESHARING

Express your commute, call 2-RIDE for more information or visit the web site at <http://www-r.llnl.gov/tsmp/> for more information

San Jose & Fremont-Mission - Space is available from San Jose and Fremont-Mission areas. Work hours: 7:30-4:30. Call 408-238-1909, ext. 3-3057

Ceres/Modesto - 14 psgr Enterprise luxury vanpool, 7:00-3:30, \$120/month 209-537-0229, ext. 3-6631

Discovery Bay - Existing carpool of 2 looking for 1 or 2 to join us. Please call for more information. 925-634-5754, ext. 3-5481

Fremont - Vanpool needs driver for half of route.Decoto/Mission/Paseo Padre. 8am-445pm.Get \$\$ off and tax incentives. Call for details. 510-792-7848, ext. 4-3791

Tracy - South part of town; seeking 1 non-smoking rider/driver for 4-person carpool; 8:00 - 4:45. 209-835-8065, ext. 2-5859

Oakland/ Montclair - Montclair/ 580, friendly vanpool, reading lights, reclining seats. 8:15 - 5; Stops Montclair village, Lincoln/Hwy 13, \$120/Mo. 510-547-4040, ext. 2-0064

SERVICES

Hauling Service. Estate cleanouts, Attics, Garage, Shed & Barns. Misc... 925-373-9540

TUTORING in high school and college chemistry and math. 925-443-2095

Quality Childcare in Byron off Vasco 0-5 years old/Immediate openings. 925-634-5877

Roofing, 28 yrs experience, fully insured 925-454-9200

House Painting - Exterior &

Interior. 15 years experience and free estimates. 925-447-5132

SHARED HOUSING

Pleasanton - Furnished Room in 2400sqft house, nice neighborhood,tv,phone,non-smoker,professional, female preferred,\$850 includes utils. 925-462-3071

TRUCKS & TRAILERS

1987 - Ford Ranger SuperCab:XLT; V-6; A/T; A/C; CD; Shell; Alloys; Tow Pkg; 79K mi; EXC. Cond. \$4200 925-837-8780

1983 - Chevy Blazer K5 - 6.2 Liter Diesel 4X4,Tow Hitch,PW,PL,PB,KC Lights, Luggage Rack, Grill Guard, Pull out Tape Deck, Great Shape, \$3500 925-373-8360

1999 - Utility Trailer For Sale. New condition, 4 ft X 6 ft, 13 inch wheels with spare. \$500.00 925-447-1664

1990 - 4WD Ford F150 Lariat-Automatic,V-8,Loaded,Camper Shell,Dual Tanks,Great Shape \$5400 925-373-2832

Small flat utility trailer. \$75. 925-443-6766

1989 - Ford XLT F250, 5.8L, 64K, 1991 Vacationeer camper, 10ft 4in, self-contained, awning, air, tow bar,\$13.5K or OBO; \$5.5K camper only 510-793-2031

1985 - Ford F250 truck, 6.9 diesel, extended cab, long bed, new tires, good condition, \$4,200, 209-854-3418

1996 - Chevy Tahoe 4x4 - V-8 Vortec engine, power everything, very clean, new Alpine stereo/speakers, new BFG mud tires. \$17,500 OBO. 925-216-0398

1984 - JEEP J-10 PU, 4x4, 360 V-8, 110k, camper shell, carpeted cabinets, positraction, air, racks, \$3500. 925-447-8804

1999 - Dodge Dakota 4X4 extra-cab Sport,AT Loaded w/every option poss. Tow/pkg, Bed-liner, bedcover. 42k freeway miles. Blue ext, Grey inter. \$19,000. 408-506-1520

1994 - GEO Tracker 4x4 auto. air. tow bar,removable hard-top,Great cond.62000 miles,\$6000.oo 209-836-0611

1997 - RED Dodge Ram, extended cab, loaded...call for details. Asking \$22K OBO 209-529-0431

1991 - Toyota 4 Runner, 4 door. Excellent condition. One owner. \$7,500. Or BO. 209-825-5139

1991 - Chevy 4WD Silverado, ExtraCab Z-71 Short bed, Shell, Bed liner, A/T, A/C, P/S, P/B, CD player \$7500 OBO 925-634-3516

1998 - GMC Sierra SLE Z71 fully loaded, tow package, bed liner, running boards, excellent condition, well maintained, \$20,000 OBO 209-825-4465

1986 - Ford F-250 4x4, 6.9 L turbo-diesel, GemTop shell, 1200-16.5 MS tires, Chrome wheels, stick shift. 140k miles. \$6500. 925-455-0859

1994 - Motorhome, excellent condition, Damon Hornet, Class C, 21.5ft, Ford 460, 40K miles, air, generator, inverter, micro \$21,500 925-373-1512

1972 - Dodge 3/4 ton pickup.

400, automatic. \$1,200.00 OBO. 925-456-3010

1997 - Chevy Silverado K3500 Dually,Ext Cab Long Bed 4WD, V8,Auto,A/C,All Pwr,AM/FM/CD/Cass. 5th Wheel Hitch & Tailgate, Tow Mirrors,Alarm,& much more... 925-447-8264

99 - Chev pushB 4X4 Silverado 2500, like new, Xcab, PS, PB, loaded, Auto-tow, HD trans, 300HP vortex, 37.5K miles, 100K ext. warrantry, \$26100, 209-748-2639

2000 - For sale: New 2000 F150 v6 under 6000 miles. Free lifetime oil changes @ Heritage Ford Modesto, plus more. 209-599-7914

1985 - Chevy Blazer w/Pop-up camper. Q size bed, sink, stove. Excellent condition, great for pulling boat. 925-443-6268

1988 - 4WD Ford F150 Lariat - A/C, P/S, Automatic trans, 4.11 Ltd-Slip Axle, Camper Shell, Towing Package, Aux rear springs, 351 V-8 engine. \$4800 OBO 925-778-7390

1954 - F100 302 runs good auto(C4) pwr steering & seats re-wired with fuse panel spare parts include lots of chrome. You finish cosmetics. \$4500.00 925-679-1288

2000 - YAMAHA TTR 225 Excl/cond. w/2 yr warr. Must sell. \$3,500/OBO 925-961-0293

1998 - Ford Ranger SuperCab XLT, 4.0L V-6, AT, PW, PL, PM, CC, ABS, CD, SRW, alarm, remote entry, bedliner, toolbox. 17,300 miles. Like new. \$13,499/OBO 925-456-7910

1986 - Toyota 4wd sb pickup, 117k miles, a/c, 5 speed, warn winch, tube bumper/ nerf bars, leer shell & more Nice camping/ snow rig.\$5250 209-368-4286

1989 - GMC Suburban, 1/2 ton 4x4, tow pkg, AC, 3rd seat, new trans, 102k, \$7,000/bo 209-862-4604

1987 - 87 Toyota Forerunner Garaged Clean Well Maintained 2 Dr 4x4 129k Great Ski Vehicle. \$10k obo. 925-606-7901

1987 - Ford Ranger Pickup,PS,PB,AC,Bed Cover, AM/FM/Tape,147,000 miles, Used every day to commute. \$1,750 925-846-1751

Weather Guard metal storage box Fits small size pickups, good cond. \$75.00 925-447-6834

1994 - Ford F150 XL, 5.0L V8, Short bed, PS/AC/AT, cruise, tow package, flowmaster exhaust, \$9500. 209-835-6478

1991 - Toyota pickup, 5 speed, fuel injected. Original owner, looks/runs great. Camper shell, carpet kit, bike rack, chrome wheels, 155K miles, \$4,500. 925-373-8239

1976 - Ford F-250 3/4 pickup. \$1450.00 or B/O 209-577-5805

Ford 88 one ton, 7.3 Dsl, crew cab, power everything! Conversion seats, newly rebuilt tranny, new master cylinder. Hauls Great! \$5000. Tracy 209-832-1750

VACATION RENTALS

Maui, HI - Kahana Reef ocean-front 1BR/1BA condominium. Beautiful two-island view, oceanside pool, and BBQs.

Low LLNL rates for year-round reservations. 925-449-0761

Eagle Lake - Now is the time to schedule this 2bd 2bth complete kitch with extras. Avail. June-Dec. 530-825-2131 925-447-3780

SOUTH LAKE TAHOE - 3 Bedroom 2 Bath Chalet, nicely furnished, all amenities, close to all skiing, few weekends left,most weekdays available Reserve Now!! 209-599-4644

Kihei, Maui - Oceanfront 1, 2, & 3 bedroom condos w/all amenities. Beautiful view, large pool, tennis courts, bbq. Low LLNL Rates. 925-846-8405

Palm Springs - --luxury hotel resort, nicely furnished 1 or 2 bedroom apartment with full kitchen and jacuzzi. Wonderful vacation place. \$130-160/night. 925-606-5660

South Lake Tahoe Vacation Rental, 3 BR+loft, sleeps 12, hot tub, close to Heavenly Valley, walk to lake, 1 mi from casinos. 925-449-2112

Southern MAINE COAST - Unique getaway, private beachfront cottage and home, available August and Fall, fully furnished, seven miles of sandy beach, call for details 925-516-7524

MAUI, Kihei spacious ocean-front condo: ocean view, beautiful white sandy beach, pools, tennis, snorkeling. Low rates. 925-846-1459

HAENA, KAUAI - - Private house and/or studio on the scenic north coast near Hanalei Bay - great beaches, hiking, boating and golf. House-\$125/day, studio-\$75/day. 831-479-3441

SEA RANCH - Oceanview home. No smoking. No pets. Adults only. 2BR(KQ)/2BA 1700sqft. Hike. Bike. Whale watch. Kayak. Swim. Tide pool. 925-443-5086

Pinecrest: - Cabin available near Dodge Ridge skiing. 3 bdrm/2 bath, fireplace w/wood, microwave, pool table, level cleared access to covered parking, \$195/wknd 925-449-5513

WANTED

Wanted: Simple CD player, either single or multiple disc,

with output stereo jack. 925-838-4449

1991 - WANTED -- CAMPER SHELL that can fit onto a 1991 Toyota standard bed pick-up truck. 510-581-4609

Wanted 45 RPM records in good condition, mainly 50s and 60s. 925-454-9291

Dog crate, large size, plastic. A door is not necessary. 925-484-4099

Do you have a 8-10 foot pop up trailer taking up valuable space in your garage? I am looking for one in good condition at a reasonable price. 925-443-8605

Suzuki Samarai in running condition. 209-952-5305

Wanted - steel wheel, 15X7, 5 lug, 4.5 inch bolt pattern, Ford, Dodge, Jeep, 925-455-0836

Cab-Over Camper, 8 foot, self contained, in very good to excellent condition. 925-625-5938

Generic version of Yellow Jacket attratant 935-735-6002

U2 Tickets at San Josa Arena, Any night 925-455-6820

Worm composter. Is yours stuck in the back of the shed taking up space? Would you like to get rid of it? 925-456-5874

Want to purchase queen size wood futon frame and mattress. 510-489-9633

Sundays newspaper coupon inserts and other coupons. Send to D. Yazzie for D. Garfield. 925-516-2728

Wanted: Student flute for beginning flute student. 209-836-9240

Looking for Large house plants and patio furniture. 209-823-5704

Hog Fencing--need 13 panels 16ft. long x 5ft. tall, heavy gauge metal. I will haul 925-557-6834

Wanted Oscilloscope & ultra-sound power meter for reasonable price. 925-449-1340

Biobottoms (or other wool) diaper covers. Need large sizes (16 lbs and up). No vinyl. Will pay \$5 per cover. Thanks! 925-417-8894

Guidelines

Newsline is not responsible for any errors contained in the classified ads. It is up to the employee to proofread his or her ad to make sure it contains the correct data, including the phone number.

Employees are reminded that only car- and vanpool ads may contain Lab extensions. E-mail addresses are not allowed.

Due to space limitations, *Newsline* cannot run ads that are submitted in all capital letters. “Personals” ads are not permitted either.

Employees may submit one ad per category, but may not include the same ad in more than one category.

Ads may only be submitted through the Employee Ads Web Services site <https://www-ais.llnl.gov/newsline/ads/>

SURVEY

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employee views of the work environment, with a goal of enhancing the Lab’s desirability as a place of employment.”

Already a diverse range of focus groups has been interviewed for input into the survey’s content. These focus groups include employee networking groups, administrative employees, newly hired scientists and engineers (S&E), machinists/laborers, postdocs and S&E foreign nationals, the Laboratory Administrative Committee, the Ombuds Council, technicians, S&Es from discipline and program organizations, first-line supervisors, as well as focus groups on ethnic and women’s diversity, safety and security, and recruitment and retention issues. ADs and other senior managers have been interviewed for input on survey content and process, and individual employees have been asked to provide input via a special e-mail address.

Focus groups were designed to gather the widest spectrum of unconstrained input for the survey. Further groups may be convened and employees are still encouraged to provide input via e-mail (workforce2001@llnl.gov).

Survey Steering Group membership

Members of the Survey Steering Group were chosen so as to provide a wide representation of the Laboratory’s organizational and demographic makeup.

The Survey Steering Group consists of:

- Jesse Castellon, Mechanical Engineering
- Evi Dube, Computations
- Becky Failor, Hazards Controls
- Giulia Galli Gygi, Physics & Advanced Technologies
- Isom Harrison, Technical Information Department
- Kent Johnson, Defense & Nuclear Technologies
- Judy Kammeraad, Chemistry & Materials Science
- Bob Kuckuck, chair, Director’s Office

- Gloria Kwei, Human Resources
- Dave Leary, Public Affairs/Business Operations
- Dave McCallen, Engineering
- Cynthia Nitta, B Division
- Barbara Peterson, Nonproliferation, Arms Control & International Security
- Tommy Smith, Affirmative Action & Diversity Programs
- Mark Strauch, Energy & Environment
- Jan Tulk, Legal
- Bruce Warner, National Ignition Facility
- Jeff Williams, Engineering
- Lynda Yon, Director’s Office

Such broad employee involvement is the directive of Lab Director Bruce Tarter, who called for the survey to measure views from as many employees as possible. He also asked that the survey attempt to identify employee priority issues and solutions and, where possible, identify issues specific to subsets of employees — issues that may be amenable to localized resolution.

Finally, Tarter charged that the entire survey must be designed to address issues and responsive actions in

a context consistent with achieving the Lab’s missions.

“We need to maintain our highly skilled workforce as we prepare for the future,” Tarter said when announcing the survey in the Jan. 12 issue of *Newsline*. “I want to ensure the Lab is seen as a good place to work, an ‘employer of choice.’ ”

Additional information about the survey and survey process will appear in upcoming issues of *Newsline*.

CLIMATE

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leader), Starley Thompson, Ken Caldeira and Jose Milovich, with assistance from Mike Wickett and Bala Govindasamy, are modeling myriad variables in the greenhouse effect — climate changes due to man-made carbon dioxide accumulation in the atmosphere from burning fossil fuels.

The results of their research will be one of many highlights in the upcoming Science Day, March 21, in the Bldg. 123 auditorium. The day will celebrate the Laboratory’s science and technology by including a daylong schedule of presentations, as well as a poster session that will highlight a broad spectrum of Laboratory research and development. (For more information, see the Website at <http://stars.llnl.gov/ScienceDay/>).

“Our work is going to play a critical role in determining the importance of carbon management,” said Caldeira. “If we’re to develop reliable predictions, which can be relied upon by governmental policy makers, we’ve got to thoroughly and accurately develop this modeling capability.

“Global-level answers are necessary if governments are to establish comprehensive policies on carbon emissions.”

The Lab’s ASCI-level computational power has enabled this team to model the needed global patterns. Their simulations, which are increasingly accurate and varied, are showing atmospheric carbon to be truly a global issue.

“The benefit of our digital modeling is the motivation to clean up the atmosphere on a global level,” said Thompson. “To really make an impact in atmospheric carbon levels, everyone must cut emissions. No one country or region can solve the problem.”

However, local-scale modeling is proving to be equally as important, for more political reasons.

“In each world region, the politicians, who hold

the purse strings, want to know ‘How’s this going to affect my area?’ ” said Caldeira, “or ‘Why should we pass control laws if others don’t?’ ”

“Each climate center typically has to answer questions to their government about pollution on a local scale, but everyone’s combined contributions to global carbon pollution is the real problem.”

Currently, different groups around the world are studying different options, but the nature of government funding has kept most of these projects from working on a global scale.

“We work with other modeling centers,” said Thompson. “There is sort of an emerging consortium as we work in cooperation to produce more detailed models. It’s certainly a process that’s in a state of continuing development.”

The team’s work addresses two main areas: How will human activities impact the atmosphere and climate, and what can we do to minimize the human impact on the carbon dioxide concentrations and ultimately on the climate?

To answer these questions they model various scenarios and possible solutions.

“We’re looking at several options,” said Caldeira. “Reducing carbon emissions through reducing energy demand (for example, through increased product efficiency or lifestyle changes), producing power from non-carbon sources (such as wind, solar or nuclear power), and carbon sequestration — storing the excess carbon where it won’t affect the atmosphere. Sequestration can be accomplished by burying the carbon in deep geologic reservoirs, planting forests to absorb it, or by sending it into the deep oceans.”

Thompson continued, “Our modeling is so complex because we must take into account the constant interaction between varying carbon dioxide levels and the uptake of that carbon by the global carbon cycle. Studying the effect of increased carbon dioxide on the climate alone, as some have done, is not accurate because as climate changes, the amount of carbon

absorbed by the land and ocean components will change.

“For example, one model forecast shows the Amazon rain forest drying out and dying, which would be a huge change and would substantially increase the atmospheric carbon.”

Further modeling details can get far more specific. Forestation modeling must even take into account the species of trees to be planted, as a dark forest absorbs more heat and the earth becomes even warmer.

“We’ve been able to test ourselves in the development of our models by modeling a known time period, such as the 1980s, and then comparing our models against the actual 1980s data,” explained Thompson. “The Europeans are a little ahead of us in their modeling applications, but we are catching up. Communication between researchers around the world is generally very good, although there is a sense of competition, too. The Hadley Center in London is currently the world leader, but the Germans are also doing some good work. Their governments are putting a lot of money into it.”

Group Leader Philip Duffy credits DOE and the Lab’s LDRD program for enabling the progress the team has accomplished. “The DOE supports part of our modeling efforts and we anticipate that they will move more into coupled climate and carbon cycle modeling in the future,” he said. “Much of our work has been done through LDRD and institutional commitment, enabling us to position ourselves for more external support in the future.”

In a forecast of another sort, Thompson predicted that as computing capability grows, the experimental high-resolution modeling that the Lab team does now will be the norm everywhere in 10 years.

“But we’re the ones with the equipment and knowledge to do it here and now,” he said.

BOOK

Continued from page 1

every where. Scientists are now highly sought after, whereas before we were sort of the Quasimodos of the employment scene.”

But, he adds, “universities and Ph.D. programs are still not providing the sort of information and guidance newly minted Ph.D.s need to hit the ground running. I want to point out all the options and get scientists thinking more broadly about their own futures.”

Science graduates are now in demand in a variety of fields, including business, industry, journalism, government, and congressional staffs, Fiske notes in his new book. But many students believe that their advisers consider inquiries in such directions as tantamount to treason.

“I respond that students need to understand that they are in charge of their training and their professional development” said Fiske. “While an adviser can provide a stimulating and nurturing environment in which to do research, the student ultimately must

chart his or her own direction. Most often, students are overly nervous about discussing career issues with their adviser. Just because advisers are unfamiliar with other career paths does not mean that they are hostile.”

In Fiske’s view, the best approach for a young scientist is to explore all career options by devoting a small portion of every work week to exploring new areas and by building an active professional network. That is what “Put Your Science to Work” is intended to facilitate. It provides advice from potential role models in a variety of scientific fields and professions, along with suggestions for learning about good job openings in unexpected places, writing winning resumes, successful interview techniques, and many other elements of the job search.

“I’ve gotten some great feedback. There’s been interesting discussion and the book is selling briskly,” Fiske said.

For more information on the book, see the AGU Website, <http://www.agu.org/careerguide>, or e-mail Fiske at fiske1@llnl.gov.



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